

CLAIMS

1. A method of establishing a BGP mesh in a network, comprising:
 - 5 flooding BGP peering information from a network device to at least one other network device;
 - the at least one other network device receiving the BGP peering information; and
 - analyzing the BGP peering information to identify at least one neighbor.
2. The method of claim 1, further comprising performing a BGP session with
 - 10 the at least one neighbor to establish a BGP mesh.
3. The method of claim 1, wherein the network device is a router or route reflector.
- 15 4. The method of claim 1, wherein the BGP peering information is static information.
5. The method of claim 1, wherein the BGP peering information comprises a BGP identifier.
- 20 6. The method of claim 1, wherein the BGP peering information comprises a flooding protocol.
7. The method of claim 6, wherein the flooding protocol is OSPF or ISIS.

8. The method of claim 1, wherein the BGP peering information comprises a flooding scope.

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9. The method of claim 1, wherein the BGP peering information comprises an autosynchronous system (AS) number or confederation sub-AS number.

10. The method of claim 1, wherein the BGP peering information comprises a
10 force new peering flag and a new peering address.

11. The method of claim 1, wherein the BGP peering information comprises an originator flag.

15 12. The method of claim 11, wherein the BGP peering information comprises an address family identifier.

13. The method of claim 1, wherein the BGP peering information comprises a route reflector flag.

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14. The method of claim 13, wherein the BGP peering information comprises an address family identifier.

25 15. The method of claim 13, wherein the BGP peering information comprises a cluster identifier.

16. The method of claim 1, wherein the BGP peering information comprises an old BGP identifier.

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17. The method of claim 1, wherein the BGP mesh is an iBGP mesh.

18. A network system that establishes a BGP mesh in a network, comprising:

a first network device flooding BGP peering information; and

10 at least one other network device that receives the BGP peering information, analyze the BGP peering information to identify at least one neighbor, and perform a BGP session with the at least one neighbor to establish a BGP mesh.

15 19. A computer program product that establishes a BGP mesh in a network, comprising:

computer code that configures a processor to flood BGP peering information from a network device to at least one other network device;

computer code that configures a processor to receive the BGP peering information at the at least one other network device;

20 computer code that configures a processor to analyze the BGP peering information to identify at least one neighbor;

computer code that performs a BGP session with the at least one neighbor to establish a BGP mesh; and

a computer readable medium that stores the computer codes.

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20. A network system that establishes a BGP mesh in a network, comprising:

 a means for flooding BGP peering information from a network device to at least one other network device;

5 a means for receiving the BGP peering information at the at least one other network device;

 a means for analyzing the BGP peering information to identify at least one neighbor; and

 a means for performing a BGP session with the at least one neighbor to establish a

10 BGP mesh.

21. A method of establishing a BGP mesh in a network, comprising:

 receiving BGP peering information from a network device;

 analyzing the BGP peering information to identify at least one neighbor; and

15 performing a BGP session with the at least one neighbor to establish a BGP mesh.

22. The method of claim 21, further comprising flooding the BGP peering information to at least one other network device.

20 23. A network system that establishes a BGP mesh in a network, comprising:

 a first network device that receives BGP peering information, analyzes the BGP peering information to identify at least one neighbor, performs a BGP session with the at least one neighbor to establish a BGP mesh, and floods the BGP peering information; and

as second network device that receives the BGP peering information from the first network device.

5 24. A computer program product that establishes a BGP mesh in a network, comprising:

computer code that receives BGP peering information ;

computer code that analyzes the BGP peering information to identify at least one neighbor;

10 computer code that performs a BGP session with the at least one neighbor to establish a BGP mesh;

computer code that floods the BGP peering information; and

a computer readable medium that stores the computer codes.

15 25. A network system that establishes a BGP mesh in a network, comprising:

a means for receiving BGP peering information ;

a means for analyzing the BGP peering information to identify at least one neighbor;

20 a means for performing a BGP session with the at least one neighbor to establish a BGP mesh; and

a means for flooding the BGP peering information.

26. A method of establishing an iBGP mesh in a network, comprising:

flooding iBGP peering information from a network device to at least one other network device;

the at least one other network device receiving the iBGP peering information;

5 analyzing the iBGP peering information to identify at least one neighbor; and

 performing an iBGP session with the at least one neighbor to establish an iBGP mesh.

10 27. A network system that establishes an iBGP mesh in a network, comprising:

 a first network device flooding iBGP peering information; and

 at least one other network device that receives the iBGP peering information, analyze the iBGP peering information to identify at least one neighbor, and perform an

15 iBGP session with the at least one neighbor to establish an iBGP mesh.

28. A computer program product that establishes an iBGP mesh in a network, comprising:

 computer code that configures a processor to flood iBGP peering information

20 from a network device to at least one other network device;

 computer code that configures a processor to receive the iBGP peering information at the at least one other network device;

 computer code that configures a processor to analyze the iBGP peering information to identify at least one neighbor;

computer code that performs an iBGP session with the at least one neighbor to establish an iBGP mesh; and

a computer readable medium that stores the computer codes.

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29. A network system that establishes an iBGP mesh in a network, comprising:

a means for flooding iBGP peering information from a network device to at least one other network device;

10 a means for receiving the iBGP peering information at the at least one other network device;

a means for analyzing the iBGP peering information to identify at least one neighbor; and

15 a means for performing an iBGP session with the at least one neighbor to establish an iBGP mesh.

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